

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 09/41321

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61K 31/405 (2009.01)

USPC - 514/415

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
USPC: 514/415Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
USPC: 514/417-419, 558, 588 (text search-see search terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST (PGPB,USPT,EPAB,JPAB), Google Scholar, SureChem, Dialogweb

indole derivative, N-acyltryptamine, serotonin, melatonin, coffee wax, protein phosphatase, PP2A, methyltransferase, methylesterase

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FOLSTAR et al. New tryptamine derivatives isolated from wax of green coffee beans. J. Agric. Food Chem., 1980, Vol 28 (4), pp 872-874. pg 872, para 1-2	1, 1a, 2-14, 14a, 15-26, 26a, 27-42, 42a, 43-59, 59a, 60-78
Y	US 2006/0171938 A1 (STOCK et al.) 03 August 2006 (03.08.2006) para [0015]-[0016], [0018], [0021]-[0022], [0027], [0053], [0123]-[0129]	1, 1a, 2-14, 14a, 15-26, 26a, 27-37, 42, 42a, 43-50, 52-59, 59a, 76-78
Y	US 2007/0197629 A1 (SOMEI et al.) 23 August 2007 (23.08.2007) para [0005], [0007], [0033]-[0037].	38-41, 49, 51
Y	US 6,306,912 B1 (MUELLER et al.) 23 October 2001 (23.10.2001) col 9; col 11, ln 37-63	51
Y	US 5,849,764 A (GOULET et al.) 15 December 1998 (15.12.1998) col 11, ln 1-45, Scheme B	60-75
Y	US 2005/0181041 A1 (GOLDMAN) 18 August 2005 (18.08.2005) para [119], [0183], [0196], [0223]	76-77

☐ Further documents are listed in the continuation of Box C.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

22 May 2009 (22.05.2009)

Date of mailing of the international search report

01 JUN 2009

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774